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Environmental Protection Agency

CTC (reagent grade)-99.5 1.1.1.-trichloroethane-99.5 CFC-11-99.5CFC-13-99.5

CFC-12—99.5

CFC-113-99.5

CFC-114-99.5

Other w/ Boiling P>20 degrees C-99.5 Other w/ Boiling P<20 degrees C—99.0

- d. Testing of organic matter in coal.
- 2. These pure, controlled substances can be subsequently mixed by manufacturers, agents or distributors with other chemicals controlled or not controlled by the Montreal Protocol as is customary for laboratory and analytical uses.
- 3. These high purity substances and mixtures containing controlled substances shall be supplied only in re-closable containers or high pressure cylinders smaller than three litres or in 10 millilitre or smaller glass ampoules, marked clearly as substances that deplete the ozone layer, restricted to laboratory use and analytical purposes and specifying that used or surplus substances should be collected and recycled, if practical. The material should be destroyed if recycling is not practical.
- 4. Parties shall annually report for each controlled substance produced: the purity; the quantity; the application, specific test standard, or procedure requiring its uses; and the status of efforts to eliminate its use in each application. Parties shall also submit copies of published instructions, standards, specifications, and regulations requiring the use of the controlled substance.

- 5. Pursuant to Decision XVIII/15 of the Parties to the Montreal Protocol, methyl bromide is exempted for the following approved essential laboratory and analytical purposes listed in following items (a) through (d). Use of methyl bromide for field trials is not an approved use under the global laboratory and analytical use exemption. The provisions of Appendix G, paragraphs (1), (2), (3), and (4), regarding purity, mixing, container, and reporting requirements for other exempt ODSs, also apply to the use of methyl bromide under this exemption.
- a. Methyl bromide is exempted as an approved essential laboratory and analytical use as a reference or standard to calibrate equipment which uses methyl bromide, to monitor methyl bromide emission levels, or to determine methyl bromide residue levels in goods, plants and commodities;
- b. Methyl bromide is exempted as an approved essential laboratory and analytical when used in laboratory toxicological stud-
- c. Methyl bromide is exempted as an approved essential laboratory and analytical use to compare the efficacy of methyl bromide and its alternatives inside a laboratory: and
- d. Methyl bromide is exempted as an approved essential laboratory and analytical use as a laboratory agent which is destroyed in a chemical reaction in the manner of feed-

[60 FR 24986, May 10, 1995, as amended at 67 FR 6362, Feb. 11, 2002; 72 FR 73269, Dec. 27,

APPENDIX H TO SUBPART A OF PART 82—CLEAN AIR ACT AMENDMENTS OF 1990 PHASEOUT SCHEDULE FOR PRODUCTION OF OZONE-DEPLETING SUBSTANCES

Date	Carbon tetra- chloride (percent)	Methyl chloro- form (per- cent)	Other class sub-stances (percent)	Date	Carbon tetra- chloride (percent)	Methyl chloro- form (per- cent)	Other class sub-stances (percent)
1994 1995 1996	70 15 15 15	85 70 50 50	65 50 40 15	1998	15 15	50 50 20 20	15 15

APPENDIX I TO SUBPART A OF PART 82—GLOBAL WARMING POTENTIALS (MASS BASIS), REFERENCED TO THE ABSOLUTE GWP FOR THE ADOPTED CARBON CYCLE MODEL CO₂ DECAY RESPONSE AND FUTURE CO₂ ATMOSPHERIC CONCENTRATIONS HELD CONSTANT AT CURRENT LEVELS. (ONLY DIRECT EFFECTS ARE CONSID-ERED.)

Species (chemical)	Chemical formula	Global warming potential (time horizon)			
Species (chemical)		20 years	100 years	500 years	
CFC-11	CFCI ₃	5000	4000	1400	
CFC-12	CF ₂ Cl ₂	7900	8500	4200	
CFC-13	CCIF ₂	8100	11700	13600	

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Species (chemical)	Chemical formula	Global warming potential (time horizon)			
Species (chemical)		20 years	100 years	500 years	
CFC-113	C ₂ F ₃ Cl ₃	5000	5000	2300	
CFC-114	C ₂ F ₄ Cl ₂	6900	9300	8300	
CFC-115	C ₂ F ₅ Cl	6200	9300	13000	
H–1301	CF ₃ Br	6200	5600	2200	
Carbon Tet	CCI ₄	2000	1400	500	
Methyl Chl	CH ₃ CCl ₃	360	110	35	
HCFC-22	CF ₂ HCI	4300	1700	520	
HCFC-141b	C ₂ FH ₃ Cl ₂	1800	630	200	
HCFC-142b	C ₂ F ₂ H ₃ Cl	4200	2000	630	
HCFC-123	C ₂ F ₃ HCl ₂	300	93	29	
HCFC-124	C ₂ F ₄ HCl	1500	480	150	
HCFC-225ca	C ₃ F ₅ HCl ₂	550	170	52	
HCFC-225cb	C ₃ F ₅ HCl ₂	1700	530	170	

AUnited Nations Environment Programme (UNEP), February 1995, Scientific Assessment of Ozone Depletion: 1994, Chapter 13, "Ozone Depleting Potentials, Global Warming Potentials and Future Chlorine/Bromine Loading," and do not reflect review of scientific documents published after that date.

[61 FR 1285, Jan. 19, 1996]

APPENDIX J TO SUBPART A OF PART 82—PARTIES TO THE MONTREAL PROTOCOL CLASSIED UNDER ARTICLE 5(1) THAT HAVE BANNED THE IMPORT OF CONTROLLED PRODUCTS THAT RELY ON CLASS I CONTROLLED SUBSTANCES FOR THEIR CONTINUING FUNCTIONING [RESERVED]

APPENDIX K TO SUBPART A OF PART 82—COMMODITY CODES FROM THE HARMONIZED TARIFF SCHEDULE FOR CONTROLLED SUBSTANCES AND USED CONTROLLED SUBSTANCES

Description of commodity or chemical	Commodity code from harmonized tariff schedule
CFC-11	2903.41.0000
CFC-12	2903.42.0000
CFC-113	2903.43.0000
CFC-114	2903.44.0010
CFC-115HALONS	2903.44.0020
	2903.46.0000
CFC-13, CFC-111, CFC-112, CFC-211, CFC-212, CFC-213, CFC-214, CFC-215, CFC-216, CFC-217	2903.45.0000
HCFC-22	2903.49.9010
HCFC-21, HCFC-31, HCFC-123, HCFC-124, HCFC-133, HCFC-141b, HCFC-142b, HCFC-225	2903.49.0000
OTHER, HALOGENATED	2903.49.9060
MIXTURES (R-500, R-502, ETC.)	3824.71.0000
MIXTURES (R-500, R-502, ETC.) MIXTURES, OTHER	3824.79.0000
CARBON TETRACHLORIDE	2903.14.0000
METHYL CHLOROFORM	2903.19.6010
METHYL BROMIDE	2903.30.1520

[63 FR 41651, Aug. 4, 1998]

APPENDIX L TO SUBPART A OF PART 82—APPROVED CRITICAL USES AND LIMITING CRITICAL CONDITIONS FOR THOSE USES FOR THE 2012 CONTROL PERIOD

Approved critical uses	Approved critical user and location of use	Limiting critical conditions that exist, or that the approved critical user reasonably expects could arise without methyl bromide fumigation			
Column A	Column B	Column C			
PRE-PLANT USES					
Cucurbits	(a) Growers in Delaware and Maryland (b) Growers in Georgia and South- eastern U.S. limited to growing loca- tions in Alabama, Arkansas, Ken- tucky, Louisiana, Mississippi, North Carolina, South Carolina, Ten- nessee, and Virginia.	Moderate to severe soilborne disease infestation. Moderate to severe yellow or purple nutsedge infestation. Moderate to severe soilborne disease infestation. Moderate to severe root knot nematode infestation.			